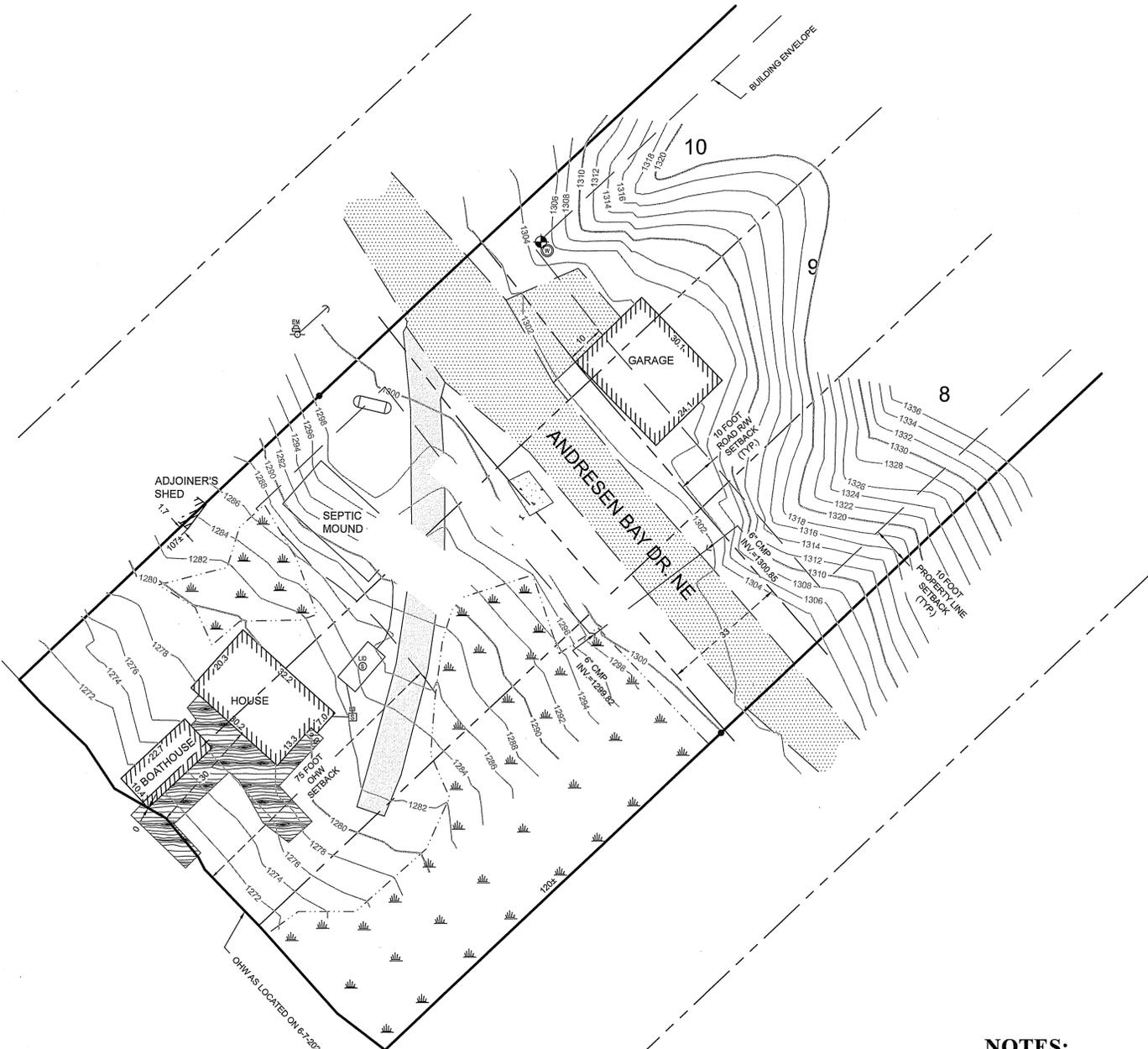


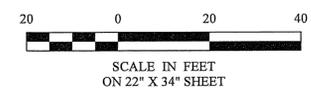
# CERTIFICATE OF SURVEY

LOTS 8-10, ANDRESEN BAY,  
SECTION 14, TOWNSHIP 139 NORTH, RANGE 26 WEST,  
CASS COUNTY, MINNESOTA  
AREA = 114,590 SQ. FT. ± / 2.6 ACRES ±  
BUILDABLE AREA = 59,925 SQ. FT.

30206 Rasmussen Road  
Suite 1  
P. O. Box 874  
Pequot Lakes, MN 56472  
218-568-4940  
www.stonematsurvey.com



**DETAIL**



## LEGEND

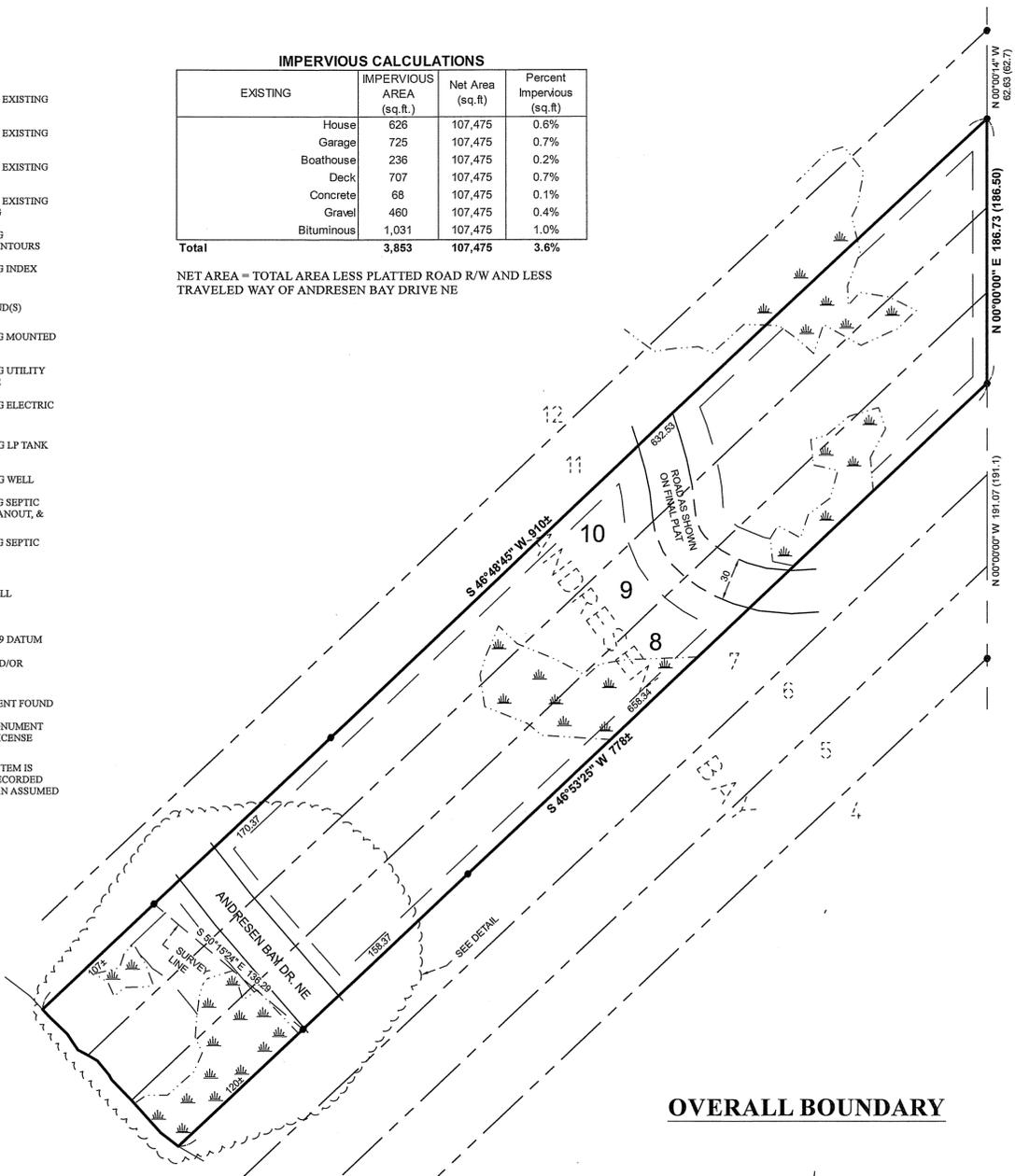
- DENOTES EDGE OF EXISTING BITUMINOUS
- DENOTES EDGE OF EXISTING GRAVEL
- DENOTES EDGE OF EXISTING CONCRETE
- DENOTES EDGE OF EXISTING WOODEN DECKING
- DENOTES EXISTING INTERMEDIATE CONTOURS
- DENOTES EXISTING INDEX CONTOURS
- DENOTES WET LAND(S)
- DENOTES EXISTING MOUNTED LIGHT
- DENOTES EXISTING UTILITY POLE W/ GUY WIRE
- DENOTES EXISTING ELECTRIC METER
- DENOTES EXISTING LP TANK
- DENOTES EXISTING WELL
- DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
- DENOTES EXISTING SEPTIC LIFT STATION
- BENCHMARK:**  
HIGH POINT OF WELL  
ELEV. = 1307.50  
BASED ON NGVD 29 DATUM  
(123.45) DENOTES PLAT AND/OR DEEDED MEASURE
- DENOTES MONUMENT FOUND
- DENOTES IRON MONUMENT SET MARKED BY LICENSE No. 44881

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE EAST LINE OF THE RECORDED PLAT OF ANDRESEN BAY TO HAVE AN ASSUMED BEARING OF N 00°00'00" E.

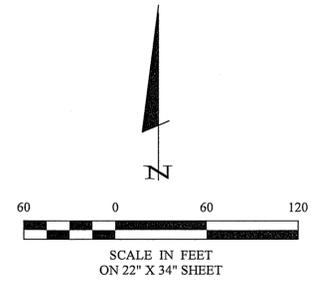
## IMPERVIOUS CALCULATIONS

EXISTING	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft)	Percent Impervious (sq.ft)
House	626	107,475	0.6%
Garage	725	107,475	0.7%
Boathouse	236	107,475	0.2%
Deck	707	107,475	0.7%
Concrete	68	107,475	0.1%
Gravel	460	107,475	0.4%
Bituminous	1,031	107,475	1.0%
<b>Total</b>	<b>3,853</b>	<b>107,475</b>	<b>3.6%</b>

NET AREA = TOTAL AREA LESS PLATTED ROAD R/W AND LESS TRAVELED WAY OF ANDRESEN BAY DRIVE NE



**OVERALL BOUNDARY**



## NOTES:

- Contour interval as shown = 2 foot. Based on NGVD 29 datum. Contours shown have been obtained using standard survey topographic methodologies. Field located on 6-7-2023.
- Zoning for subject tract = "Shoreland residential".
- There are no bluffs within surveyed property.
- Wetland delineation was completed on 5-20-2023, by Ben Meister, Meister Environmental, LLC. MN Certified Wetland Delineator #1031.
- Parcel ID of subject parcel: 12-422-0080.
- The E911 address of subject parcel: 6565 Andresen Bay Drive NE.
- Setbacks as shown can be subject to interpretation. Verification of setbacks by the governing body is advised prior to building.
- Approximate location of septic system per sketch prepared by Tom Antonsen, Antonsen Excavating, Inc.
- No easement of record has been provided for Andresen Bay Drive NE. Additional title research and/or legal advise is recommended. For purposes of this survey the road right-of-way width is based on the GIS website.

**ROOSEVELT LAKE**  
GENERAL DEVELOPMENT CLASSIFICATION  
LAKE ELEVATION = 1269.30 ON 6-7-2023

ORDINARY HIGH WATER ELEVATION = 1269.9

**BENCHMARK:** In-place spike, NE corner of 2016 timber bridge deck on ridge between Roosevelt (11-0043) and Lawrence (11-0053) Lakes. Elevation = 1276.15

BASED ON NGVD 29 DATUM  
INFORMATION OBTAINED FROM MNDNR

I HEREBY CERTIFY THAT THIS SURVEY PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.  
*Christopher M. Hilde*  
CHRISTOPHER M. HILDE, PLS#44881  
DATE: 7/14/2023 LIC. NO. 44881

REVISIONS	DATE	DESCRIPTION
BY		

PROJECT No.:	DATE:	DATE:
23041	7-14-2023	
FILE NAME:	SCALE:	
C23041.dwg	HORZ. AS NOTED	
FIELD BOOK:	VERT. NONE	
BOOK	PG.	

PROJECT MANAGER	CHECKED BY:	DRAWN BY:
CMH	CMH	RFJ

CERTIFICATE OF SURVEY  
Jenny Nair  
11055 19th Circle NW  
Elk River, MN 55330-1233  
SHEET 1 OF 1